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(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>Mess. Furness 83</i> <i>Co. Ltd 387/8</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>535.75</i> Breadth <i>74</i> Depth <i>57</i> <i>centre of immersion</i> <i>35</i>					Date of Survey <i>27-3-44</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					Surveyor's Signature
Coefficient of fineness for use with Tables <i>-834 (assumed)</i>					Particulars of Classification <i>100% with fr.</i> <i>Carrying petroleum in bulk</i> <i>(Contingent)</i>

Depth for Freeboard (D). Moulded depth <i>43.10</i> Stringer plate <i>.04</i> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <i>43.14</i>	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(43.14 - 35.71) \times 3 = +22.29$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference <i>assumed round</i> Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <i>Nil</i>
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...					

assumed 100%

Standard Height of Superstructure *7.5*
 „ „ R.Q.D. *1*
 Deduction for complete superstructure *42*
 Percentage covered $\frac{S}{L} =$
 „ „ $\frac{S_1}{L} =$ *100*
 „ „ $\frac{E}{L} =$
 Percentage from Table, Line A.
 (corrected for absence of forecastle (if required))
 Percentage from Table, Line B.
 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than 2L (if required)
 Deduction = $42 \times 1.0 = -42$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1					1		
$\frac{1}{2}L$ from A.P. ...		4					4		
$\frac{2}{3}L$ „ ...		2					2		
Amidships ...		4					4		
$\frac{2}{3}L$ from F.P. ...		2					2		
$\frac{1}{2}L$ „ ...		4					4		
F.P. ...		1					1		
Total ...									

assumed standard

Mean actual sheer aft =
 Mean standard sheer aft =
 Mean actual sheer forward =
 Mean standard sheer forward =
 Length of enclosed superstructure forward of amidships =
 „ „ aft of „ =
 Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$
 If limited on account of midship superstructure.

Nil

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <i>43.14</i> Summer freeboard = <i>8.80</i> Moulded draught (d) = <i>34.34</i> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line $T =$ Deduction = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{834 + .05}{1.30} = \frac{1.514}{1.36}$ <table border="1"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr><td>Depth Correction ...</td><td><i>2229</i></td><td></td></tr> <tr><td>Deduction for superstructures ...</td><td></td><td><i>42.00</i></td></tr> <tr><td>Sheer correction ...</td><td></td><td><i>50</i></td></tr> <tr><td>Round of Beam correction ...</td><td></td><td></td></tr> <tr><td>Correction for Thickness of Deck amidships ...</td><td></td><td></td></tr> <tr><td>Other corrections, scantlings, etc. ...</td><td></td><td></td></tr> <tr><td>Summer Freeboard</td><td><i>105.55</i></td><td></td></tr> </tbody> </table>		+	-	Depth Correction ...	<i>2229</i>		Deduction for superstructures ...		<i>42.00</i>	Sheer correction ...		<i>50</i>	Round of Beam correction ...			Correction for Thickness of Deck amidships ...			Other corrections, scantlings, etc. ...			Summer Freeboard	<i>105.55</i>	
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ...
 Fresh Water Line „ „ ...
 Tropical Line „ „ ...
 Winter Line below „ „ ...
 Winter North Atlantic Line „ „ ...

Tropical Fresh Water Freeboard ...
 Fresh Water „ „ ...
 Tropical „ „ ...
 Winter „ „ ...
 Winter North Atlantic „ „ ...

8.80 feet
 Lloyd's Register
 Foundation

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